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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/892,340	06/27/2001	Robert A. Rousseau	ETH-1507	3554	
27614 7	7590 09/10/2004		EXAMINER		
	RALPH W. SELITTO, JR.			LANDREM, KAMRIN R	
	TER & ENGLISH, LLP		ART UNIT	PAPER NUMBER	
	GATEWAY CENTER FOUR 100 MULBERRY STREET			TAI ER NOMBER	
NEWARK, N			3738		

DATE MAILED: 09/10/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	13
	09/892,340	ROUSSEAU, ROB	ERT A
Office Action Summary	Examiner	Art Unit	
	Kamrin R. Landrem	3738	<u> </u>
The MAILING DATE of this communication appeared for Reply	pears on the cover sheet w	ith the correspondence add	iress
A SHORTENED STATUTORY PERIOD FOR REPL	Y IS SET TO EXPIRE 3 M	IONTH(S) FROM	
THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a replection of the period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statute any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a in the statutory minimum of thing will apply and will expire SIX (6) MON e, cause the application to become Al	reply be timely filed ty (30) days will be considered timely. NTHS from the mailing date of this cor BANDONED (35 U.S.C. § 133).	
Status		•	
1) Responsive to communication(s) filed on <u>01 J</u>	lune 2004.		
2a)⊠ This action is FINAL . 2b)□ This	s action is non-final.		
3) Since this application is in condition for allowa	nce except for formal mat	ters, prosecution as to the	merits is
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D). 11, 453 O.G. 213.	
Disposition of Claims			
4) Claim(s) 1-15,21 and 22 is/are pending in the	application.		
4a) Of the above claim(s) is/are withdra	wn from consideration.		
5) Claim(s) is/are allowed.			
6) Claim(s) <u>1-15,21,22</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/o	or election requirement.		•
Application Papers		•	
9) The specification is objected to by the Examine			
10) The drawing(s) filed on is/are: a) acc			
Applicant may not request that any objection to the			D 4 404(d)
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E.	,	•	• •
·	Adminer. Note the attached	J Office Action of form 1	0-102.
Priority under 35 U.S.C. § 119			
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list 	ts have been received. ts have been received in A prity documents have been uu (PCT Rule 17.2(a)).	Application No received in this National S	Stage
			·
Attachment(s)			
1) Notice of References Cited (PTO-892)		Summary (PTO-413)	
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 		s)/Mail Date nformal Patent Application (PTO- 	-152)
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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-6,14, and 15 are rejected under 35 U.S.C. 102(b) as being anticipated by Chaffringeon et al (USPN 5,919,232).

With reference to Figure 1, Chaffringeon discloses a prosthetic mesh system 1 adapted for implantation into an area containing a hernia defect (2:64) comprising a flexible biocompatible mesh 10 that has a generally flat shape (Figure 1) and a second generally collapsed shape (Figures 2 and 5). The mesh layer 10 has a plurality of ridges 5 formed integrally there within to facilitate movement of the mesh layer 10 from a flat to a generally collapsed configuration. The mesh layer is expandable from its collapsed shape to its flat shape after being implanted in the body (4:12-20).

With regards to Claim 2, this is considered a product by process claim. MPEP 2111 states, "Even though product-by-process claims are limited by and defined by the process, determination of patentability is based on the product itself. The patentability of a product does not depend on its method of production. If the product in the product-by-process claim is the same as or obvious from a product of the prior art, the claim is unpatentable even though the prior product was made by a different process." Chaffringeon does not specifically recite that a thermo-forming process forms the device however the product formed is the same and is

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therefore rejected in view of Chaffringeon. In addition the applicant's specification, page 5, lines 18-21 disclose that other processes can be used for shaping the patch so as to provide ridges therein.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 7 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chaffringeon in view of Kugel (USPN 5,634,931).

Chaffringeon, as discussed above, discloses the prosthetic mesh system as claimed. Chaffringeon however does not disclose a mesh comprising two layers. With reference to Figure 5 Kugel teaches a hernia mesh patch (7:36-60) composed of a top 42 and a bottom layer 44 thus enabling the surgeon to place his or her finger between the layers and easily insert the patch (4:15-26). A ring 72 connects the layers 42,44. Therefore in view of the teachings it would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified the mesh system as disclosed by Chaffringeon to have two layers thus allowing the surgeon to easily insert the mesh with less tension, less post-operative discomfort, shorter operating time, and a lower potential cost to the patient (5:33-43).

Claims 9-13 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Chaffringeon.

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Chaffringeon discloses the prosthetic mesh as discussed above. Chaffringeon does not disclose expressly a mesh comprising ridges in multiple formations. At the time the invention was made, it would have been an obvious matter of design choice to a person of ordinary skill in the art to have formed the ridges into concentric circles or radial extensions from the center because Applicant has not disclosed that these ridge formations provide an advantage, are used for a particular purpose, or solve a stated problem. One of ordinary skill in the art, furthermore, would have expected Applicant's invention to perform equally well with ridges paralleling one another as taught by Chaffringeon because these ridges facilitate the movement of the mesh layer between a collapsed and a flat shape by pulling or releasing said ridges.

Therefore, it would have been an obvious matter of design choice to modify Chaffringeon to obtain the invention as specified in claims 9-13.

Claims 21 and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chaffringeon et al in view of White (USPN 5,728,510).

As discussed above, Chaffringeon discloses a prosthetic mesh system adapted for implantation in a body, comprising a biocompatible mesh layer wherein the mesh layer is flexible such that it has a generally flat shape and a generally collapsed shape for insertion. Chaffringeon discloses the claimed prosthetic mesh however fails to disclose that the mesh comprises at least one ridge formed monolithically with said mesh layer to form a single piece. With reference to Figures 1 and 2, White teaches a prosthetic mesh 1 having a plurality of ridges 40 formed as a single monolithic sheet that has variable flexibility (4:56-5:2) depending on the specific use of the mesh that is adapted for implantation into a body and provides a material

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which simulates human tissue for use in repair and replacement of tissue at a lower cost (1:59-2:22). Chaffringeon includes embodiments of multiple layers (Figure 8) or single layers (single piece Figures 5-7). Therefore in view of the teachings it would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified the mesh of Chaffringeon by including the ridge as a single piece to form the monolithic mesh as taught by White to form a more cost effective, biocompatible material for repair and replacement of tissues.

Response to Arguments

Applicant's arguments filed 6/1/04 have been fully considered but they are not persuasive. The applicant's arguments of Claim 1, with regards to the "mesh layer with at least one ridge formed integrally therewith" are unpersuasive. The term "integrally" is interpreted to mean "something made up of parts that together forma whole". Therefore the filament (ridge) that is interlaced at catching points within the mesh. Therefore the filament part and the woven mesh structure, together form an integral prosthetic mesh system. The filaments are shaped and configured to facilitate the mesh to move from a flat configuration, to a collapsed configuration for insertion, and back to a flat deployed configuration (4:12-20). Chaffringeon et al further discloses that the mesh comprises a warp and west configuration of polyester that is coated with collagen. Chaffringeon does not disclose that the mesh material comprises various materials and therefore the mesh material is internally consisted in material properties (i.e. rigidity) throughout.

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Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the .

examiner should be directed to Kamrin R. Landrem whose telephone number is 703-305-8061.

The examiner can normally be reached on 8:00-5:00, Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Corrine McDermott can be reached on 703-308-2111. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kamrin Landrem Examiner AU 3738

krl

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